APTD-0603

PB196028

MANUFACTURERS' REPORT OF AIR POLLUTION CONTROL EQUIPMENT SALES

For the Years
1965, 1967, and 1968

Reported by the

INDUSTRIAL GAS CLEANING INSTITUTE, INC.

Rye, New York

This publication is based on a compilation of control equipment sales data prepared under Contracts CPA 22-69-5 and CPA 70-18 for:

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Environmental Health Service
National Air Pollution Control Administration

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SUMMARY OF THE MANUFACTURERS' REPORT OF AIR POLLUTION CONTROL EQUIPMENT SALES
(PARTICULATE)

INDUSTRIAL CLASSIFICATION	Year	TOTAL Number	TOTAL Amount	ELECTROSTATIC Number	ELECTROSTATIC Amount	MECHANICAL Number	MECHANICAL Amount	FABRIC FILTER Number	FABRIC FILTER Amount	WET SCRUBBER Number	WET SCRUBBER Amount
ALL EQUIPMENT, NEC*	1966	2,332	2,589,666	1	63,680	938	953,121	1,250	801,548	143	771,317
	1967	2,558	1,999,235	0	0	1,066	551,012	1,380	907,779	112	540,444
	1968	2,312	5,034,225	0	0	725	1,596,838	1,243	2,437,628	344	999,759
DOMESTIC & COMMERCIAL HEATING PLANTS	1966	8	19,149	0	0	7	12,849	0	0	1	6,300
	1967	16	115,783	0	0	16	115,783	0	0	0	0
	1968	17	101,396	0	0	17	101,396	0	0	0	0
INDUSTRIAL HEATING PLANTS	1966	125	1,241,001	3	300,533	113	907,468	0	0	9	33,000
	1967	148	1,862,580	6	736,327	106	885,153	0	0	36	241,100
	1968	119	3,027,532	8	1,804,743	104	1,026,827	1	521	6	195,441
MINING (S.I.C. No.: 10)	1966	131	1,489,012	5	395,000	33	194,222	35	409,676	58	490,114
	1967	107	1,338,722	6	559,000	27	185,843	24	187,622	50	406,257
	1968	129	1,514,035	2	220,203	26	221,190	17	45,103	84	1,027,539
MINING AND QUARRYING OF NONMETALLIC MINERALS, EXCEPT FUELS (S.I.C. No.: 14)	1966	307	1,011,975	0	0	224	388,733	55	334,594	28	288,648
	1967	244	841,320	0	0	178	338,136	46	378,234	20	124,950
	1968	341	776,554	0	0	251	261,795	36	257,085	54	257,674
FOOD AND KINDRED PRODUCTS (S.I.C. No. :20)	1966	578	2,227,927	0	0	119	407,330	394	1,074,862	65	199,816
	1967	482	1,597,461	0	0	85	298,277	315	949,096	82	350,268
	1968	434	1,625,831	0	0	74	253,610	270	1,003,239	90	368,982
TEXTILE MILL PRODUCTS (S.I.C. No.: 22)	1966	50	92,115	0	0	5	7,374	45	84,741	0	0
	1967	22	74,953	0	0	2	1,335	20	73,618	0	0
	1968	81	87,953	0	0	29	30,606	52	57,347	0	0
APPAREL & RELATED PRODUCTS (S.I.C. No.: 23)	1966	0	0	0	0	0	0	0	0	0	0
	1967	1	428	0	0	0	0	1	428	0	0
	1968	2	11,633	0	0	0	0	2	11,633	0	0

*NEC = Not Elsewhere Classified.

SUMMARY OF THE MANUFACTURERS' REPORT OF AIR POLLUTION CONTROL EQUIPMENT SALES
(PARTICULATE)

INDUSTRIAL CLASSIFICATION	Year	TOTAL		ELECTROSTATIC		MECHANICAL		FABRIC FILTER		WET SCRUBBER	
		Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE (S.I.C. No.: 24)	1966	284	667,633	0	0	197	381,689	81	205,845	6	80,099
	1967	464	1,026,242	0	0	331	600,985	127	403,181	6	22,076
	1968	291	935,935	0	0	194	623,347	94	300,478	3	12,110
FURNITURE & FIXTURES (S.I.C. No.: 25)	1966	53	105,524	0	0	22	85,204	31	20,320	0	0
	1967	112	172,429	0	0	47	94,702	65	77,727	0	0
	1968	77	86,249	0	0	29	28,806	48	57,443	0	0
PAPER & ALLIED PRODUCTS (S.I.C. No.: 26)	1966	189	3,538,123	19	2,696,185	53	114,325	75	160,577	42	567,036
	1967	156	2,339,619	9	1,654,280	48	65,590	55	135,927	44	483,822
	1968	213	3,861,129	36	2,980,130	51	101,685	80	153,274	46	626,040
PRINTING AND PUBLISHING (S.I.C. No.: 27)	1966	62	69,695	0	0	44	28,477	6	18,460	12	22,758
	1967	44	59,737	0	0	27	21,056	7	13,039	10	25,642
	1968	38	63,009	0	0	11	14,044	22	35,712	5	13,253
CHEMICAL & ALLIED PRODUCTS (S.I.C. No.: 28)	1966	1307	7,000,521	11	772,085	358	880,561	791	3,857,694	147	1,490,181
	1967	1219	6,535,595	5	394,605	306	936,531	776	3,787,876	132	1,417,583
	1968	1081	6,997,985	8	1,011,635	287	939,570	663	3,839,732	121	1,207,048
PETROLEUM REFINING AND RELATED INDUSTRIES (S.I.C. No.: 29)	1966	114	3,833,508	2	72,680	50	3,455,610	44	183,697	18	121,521
	1967	100	3,249,645	5	537,965	42	2,237,788	27	259,166	26	214,726
	1968	270	4,248,070	2	260,615	187	3,170,890	25	341,161	56	475,404
RUBBER & MISCELLANEOUS PLASTICS PRODUCTS (S.I.C. No.: 30)	1966	352	708,608	0	0	133	197,791	186	399,605	33	111,212
	1967	270	554,432	0	0	93	106,083	137	339,399	40	108,841
	1968	350	815,400	0	0	129	211,755	178	429,459	43	174,186

SUMMARY OF THE MANUFACTURERS' REPORT OF AIR POLLUTION CONTROL EQUIPMENT SALES
(PARTICULATE)

INDUSTRIAL CLASSIFICATION	Year	TOTAL Number	TOTAL Amount	ELECTROSTATIC Number	ELECTROSTATIC Amount	MECHANICAL Number	MECHANICAL Amount	FABRIC FILTER Number	FABRIC FILTER Amount	WET SCRUBBER Number	WET SCRUBBER Amount
LEATHER AND LEATHER PRODUCTS (S.I.C. No.: 31)	1966	156	107,160	0	0	74	50,462	81	54,803	1	1,895
	1967	187	142,355	0	0	90	65,159	97	77,196	0	0
	1968	200	200,740	0	0	80	80,296	120	120,444	0	0
STONE, CLAY, GLASS & CONCRETE PRODUCTS (S.I.C. No.: 32)	1966	536	5,680,281	11	2,351,850	99	380,909	406	2,814,952	20	132,570
	1967	398	6,049,004	13	2,054,695	91	332,825	276	3,450,635	18	210,849
	1968	525	8,545,845	15	2,589,868	110	745,909	343	4,707,099	57	502,969
PRIMARY METALS INDUSTRIES (S.I.C. No.: 33)	1966	1486	15,347,088	20	3,966,483	386	927,599	819	5,738,669	261	7,395,356
	1967	1510	15,274,975	16	2,366,368	356	704,457	833	6,587,496	305	5,616,656
	1968	1712	25,549,284	15	5,963,754	402	1,089,192	972	11,039,298	323	7,457,041
FABRICATED METAL PRODUCTS (S.I.C. No.: 34)	1966	393	339,478	0	0	162	109,286	226	207,725	5	22,467
	1967	269	285,768	0	0	0	0	264	251,527	5	34,241
	1968	440	516,737	0	0	162	158,923	270	337,398	8	20,416
MACHINERY, EXCEPT ELECTRICAL (S.I.C. No.: 35)	1966	1,376	903,990	0	0	521	329,444	855	574,546	0	0
	1967	1,079	851,880	0	0	375	270,210	704	581,670	0	0
	1968	816	882,695	0	0	311	307,220	504	558,750	1	16,725
ELECTRICAL MACHINERY (S.I.C. No.: 36)	1966	624	498,973	0	0	245	146,923	376	337,055	3	14,995
	1967	531	442,643	0	0	203	140,671	321	258,873	7	43,099
	1968	52	102,097	0	0	15	16,055	36	79,912	1	6,130
TRANSPORTATION EQUIPMENT (S.I.C. No.: 37)	1966	351	800,404	0	0	149	95,848	200	272,056	2	432,500
	1967	336	487,273	0	0	147	105,321	187	342,152	2	39,800
	1968	220	356,302	0	0	76	89,669	141	235,288	3	31,345
INSTRUMENTS (S.I.C. No.: 38)	1966	262	213,947	0	0	121	72,184	141	141,763	0	0
	1967	268	296,953	0	0	108	75,836	160	221,117	0	0
	1968	294	313,033	0	0	115	115,548	178	195,204	1	2,281

SUMMARY OF THE MANUFACTURERS' REPORT OF AIR POLLUTION CONTROL EQUIPMENT SALES
(PARTICULATE)

INDUSTRIAL CLASSIFICATION	Year	TOTAL Number	TOTAL Amount	ELECTROSTATIC Number	ELECTROSTATIC Amount	MECHANICAL Number	MECHANICAL Amount	FABRIC FILTER Number	FABRIC FILTER Amount	WET SCRUBBER Number	WET SCRUBBER Amount
MISCELLANEOUS MFG. INDUSTRIES (S.I.C. No.: 39)	1966	196	169,274	0	0	89	58,204	107	111,070	0	0
	1967	202	215,993	0	0	77	53,927	121	91,296	4	70,770
	1968	150	228,497	0	0	54	63,479	87	99,891	9	65,127
ELECTRIC, GAS & SANITARY SERVICES (S.I.C. No.: 49)	1966	252	19,056,749	55	15,998,885	139	1,854,969	33	369,361	25	833,534
	1967	327	25,582,270	63	22,774,900	129	1,798,669	20	221,670	115	787,031
	1968	729	25,268,294	57	22,000,496	65	874,974	19	101,684	588	2,291,140
TOTAL (PARTICULATE)	1966	11,524	69,846,899	127	26,617,381	4,281	12,040,582	6,237	18,173,618	879	13,015,318
	1967	11,050	71,397,185	123	31,078,140	3,950	9,985,349	5,963	19,595,543	1,014	10,738,154
	1968	10,893	91,150,461	143	36,831,444	3,504	12,123,624	5,403	26,444,783	1,843	15,750,610

SUMMARY OF THE MANUFACTURERS' REPORT OF AIR POLLUTION CONTROL EQUIPMENT SALES
(GASEOUS)

INDUSTRIAL CLASSIFICATION (S.I.C.)	Year	TOTAL		GAS ABSORBER		THERMAL OXIDI-DATION		DIRECT COM-BUSTION		CATALYTIC OXIDATION	
		No.	$ Amt.	No.	$ Amt.	No.	$ Amt.	No.	$ Amt.	No.	$ Amt.
ALL EQUIPMENT, N.E.C. (00)	1966	98	140,083	94	114,912	0	0	0	0	4	25,171
	1967	0	0	0	0	0	0	0	0	0	0
	1968	69	92,561	67	78,561	2	14,000	0	0	0	0
DOMESTIC & COMMERCIAL HEATING PLANTS	1966	0	0	0	0	0	0	0	0	0	0
	1967	64	68,061	62	57,045	0	0	0	0	2	11,016
	1968	0	0	0	0	0	0	0	0	0	0
INDUSTRIAL HEATING PLANTS	1966	0	0	0	0	0	0	0	0	0	0
	1967	0	0	0	0	0	0	0	0	0	0
	1968	0	0	0	0	0	0	0	0	0	0
MINING (10)	1966	0	0	0	0	0	0	0	0	0	0
	1967	3	701	3	701	0	0	0	0	0	0
	1968	1	524	1	524	0	0	0	0	0	0
MINING & QUARRYING OF NON-METALLIC MINERALS, EXCEPT FUELS (14)	1966	4	6,793	4	6,793	0	0	0	0	0	0
	1967	1	774	1	774	0	0	0	0	0	0
	1968	1	1,216	1	1,216	0	0	0	0	0	0
FOOD AND KINDRED PRODUCTS (20)	1966	23	58,232	20	16,738	1	13,900	0	0	2	27,594
	1967	18	203,938	13	8,098	1	82,920	3	104,020	1	8,900
	1968	13	11,308	13	11,308	0	0	0	0	0	0
TEXTILE MILL PRODUCTS (22)	1966	6	70,028	2	4,438	4	65,590	0	0	0	0
	1967	2	597	2	597	0	0	0	0	0	0
	1968	0	0	0	0	0	0	0	0	0	0

SUMMARY OF THE MANUFACTURERS' REPORT OF AIR POLLUTION CONTROL EQUIPMENT SALES
(GASEOUS)

INDUSTRIAL CLASSIFICATION (S.I.C.)	Year	TOTAL		GAS ABSORBER		THERMAL OXIDI-DATION		DIRECT COM-BUSTION		CATALYTIC OXIDATION	
		No.	$ Amt.	No.	$ Amt.	No.	$ Amt.	No.	$ Amt.	No.	$ Amt.
PRIMARY METAL INDUSTRIES (33)	1966	59	616,111	31	26,430	1	177,000	1	23,210	26	389,471
	1967	64	244,139	51	110,423	0	0	0	0	13	133,716
	1968	43	115,489	36	56,892	7	58,597	0	0	0	0
FABRICATED METAL PRODUCTS (34)	1966	13	400,200	1	187	1	17,375	0	0	11	382,638
	1967	23	364,647	2	1,191	3	100,979	4	197,000	14	65,477
	1968	9	100,037	1	226	8	99,811	0	0	0	0
MACHINERY, EXCEPT ELECTRICAL (35)	1966	35	34,918	35	34,918	0	0	0	0	0	0
	1967	28	106,573	24	25,181	3	56,072	0	0	1	25,320
	1968	43	107,367	34	22,990	9	84,377	0	0	0	0
ELECTRICAL MACHINERY (36)	1966	18	222,558	13	4,704	0	0	0	0	5	217,854
	1967	10	51,705	6	3,952	1	10,053	0	0	3	37,700
	1968	38	413,623	16	118,953	22	294,670	0	0	0	0
TRANSPORTATION EQUIPMENT (37)	1966	9	83,122	7	15,076	1	63,450	0	0	1	4,596
	1967	17	370,814	1	167	0	0	15	370,647	0	0
	1968	3	2,034	3	2,034	0	0	0	0	0	0
INSTRUMENTS (38)	1966	3	1,114	3	1,114	0	0	0	0	0	0
	1967	3	10,078	3	10,078	0	0	0	0	0	0
	1968	3	1,905	3	1,905	0	0	0	0	0	0

SUMMARY OF THE MANUFACTURERS' REPORT OF AIR POLLUTION CONTROL EQUIPMENT SALES
(GASEOUS)

INDUSTRIAL CLASSIFICATION (S.I.C.)	Year	TOTAL		GAS ABSORBER		THERMAL OXIDI-DATION		DIRECT COM-BUSTION		CATALYTIC OXIDATION	
		No.	$ Amt.	No.	$ Amt.	No.	$ Amt.	No.	$ Amt.	No.	$ Amt.
LUMBER & WOOD PRODUCTS, EXCEPT FURNITURE (24)	1966	1	668	1	668	0	0	0	0	0	0
	1967	0	0	0	0	0	0	0	0	0	0
	1968	2	1,765	2	1,765	0	0	0	0	0	0
PAPER & ALLIED PRODUCTS (26)	1966	9	18,349	9	18,349	0	0	0	0	0	0
	1967	14	20,598	14	20,598	0	0	0	0	0	0
	1968	4	13,237	4	13,237	0	0	0	0	0	0
PRINTING & PUBLISHING (27)	1966	6	92,070	1	747	1	60,120	0	0	4	31,203
	1967	2	11,983	0	0	0	0	0	0	2	11,983
	1968	0	0	0	0	0	0	0	0	0	0
CHEMICAL & ALLIED PRODUCTS (28)	1966	357	534,756	346	365,625	2	67,750	0	0	9	101,381
	1967	329	900,492	315	243,824	4	455,381	1	65,400	9	135,887
	1968	360	633,203	347	407,948	13	225,255	0	0	0	0
PETROLEUM REFINING AND RELATED PRODUCTS (29)	1966	16	15,229	16	15,229	0	0	0	0	0	0
	1967	24	93,008	22	28,088	1	29,920	0	0	1	35,000
	1968	12	24,561	12	24,561	0	0	0	0	0	0
RUBBER & MISCELLANEOUS PLASTICS PRODUCTS (30)	1966	14	26,001	14	26,001	0	0	0	0	0	0
	1967	9	10,050	9	10,050	0	0	0	0	0	0
	1968	14	11,948	14	11,948	0	0	0	0	0	0
STONE, CLAY, GLASS & CONCRETE PRODUCTS (32)	1966	2	1,514	2	1,514	0	0	0	0	0	0
	1967	2	1,565	2	1,565	0	0	0	0	0	0
	1968	6	5,144	6	5,144	0	0	0	0	0	0

SUMMARY OF THE MANUFACTURERS' REPORT OF AIR POLLUTION CONTROL EQUIPMENT SALES
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INDUSTRIAL CLASSIFICATION (S.I.C.)	Year	TOTAL		GAS ABSORBER		THERMAL OXIDI-DATION		DIRECT COM-BUSTION		CATALYTIC OXIDATION	
		No.	$ Amt.	No.	$ Amt.	No.	$ Amt.	No.	$ Amt.	No.	$ Amt.
MISCELLANEOUS MFG. INDUSTRIES (39)	1966	15	257,180	11	17,400	4	239,780	0	0	0	0
	1967	13	51,119	9	8,938	4	42,181	0	0	0	0
	1968	17	43,416	17	43,416	0	0	0	0	0	0
ELECTRIC, GAS & SANITARY SERVICES (49)	1966	1	3,714	0	0	0	0	0	0	1	3,714
	1967	0	0	0	0	0	0	0	0	0	0
	1968	12	17,712	12	17,712	0	0	0	0	0	0
TOTAL (GASEOUS)	1966	700	2,592,851	621	681,323	15	704,695	1	23,210	63	1,183,623
	1967	616	2,511,042	539	531,270	17	777,506	24	737,267	36	464,999
	1968	650	1,651,228	587	820,340	63	830,888	0	0	0	0

STANDARD TITLE PAGE FOR TECHNICAL REPORTS	1. Report No. APTD-0603	2. Gov't. Accession No.	3. Recipient's Catalog No.
4. Title and Subtitle: Manufacturers' Report of Air Pollution Control Equipment Sales For the Years 1966, 1967, and 1968			5. Report Date
			6. Performing Organization Code
7. Author(s)			8. Performing Organization Rept. No.
9. Performing Organization Name and Address: Industrial Gas Cleaning Institute, Inc. Rye, New York			10. Project/Task/Work Unit No.
			11. Contract/Grant No. CPA 22-69-5 CPA 70-18
12. Sponsoring Agency Name and Address: National Air Pollution Control Administration Technical Center 411 West Chapel Hill Street Durham, North Carolina 27701			13. Type of Report & Period Covered
			14. Sponsoring Agency Code
15. Supplementary Notes			

16. Abstracts

Tables alone are presented of the number and dollar amount of sales for each of the three years for each of four types of particulate control equipment (electrostatic, mechanical, fabric filter, and wet scrubber) and four types of gaseous control equipment (absorber, thermal oxidation, direct combustion, and catalytic oxidation). The tables are further sub-divided by the standard industrial classification of the buyers.

17. Key Words and Document Analysis. (a). Descriptors

Air pollution control equipment
Sales
Aerosols
Dust
Exhaust gases
Electrostatic precipitators
Gas filters
Scrubbers
Absorbers (equipment)
Oxidation
Combustion
Catalysis
Industries
Metal industry
Food industry
Textile industry
Paper industry
Chemical industry
Petroleum industry
Rubber industry
Plastics industry
Glass industry

17b. Identifiers/Open-Ended Terms

17c. COSATI Field/Group 13/02, 05/03

18. Distribution Statement	19. Security Class (This Report)	21. No. of Pages
Unlimited	UNCLASSIFIED	10
	20. Security Class. (This Page) UNCLASSIFIED	22. Price

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This report was furnished to the Air Pollution Control Office by the Industrial Gas Cleaning Institute, Inc. in fulfillment of Contract Nos. CPA 22-69-5 and CPA 70-18.